

LAr Batch Tools - Bug #24003

Python2 Print Syntax in project.py

02/04/2020 09:16 AM - Ryan Lazur

Status:	Resolved	Start date:	02/04/2020
Priority:	High	Due date:	
Assignee:	Herbert Greenlee	% Done:	0%
Category:		Estimated time:	1.00 hour
Target version:		Spent time:	0.00 hour
Description I just built icaruscode v08_41_00 and I can no longer use project.py to launch grid jobs. The errors are related to the print statements in project.py that have the ancient python2 syntax (no parenthesis). I have tried importing <i>future.print_function</i> and that didn't help. I also tried using the usual python updating software like futurize and 2to3, neither worked for me.			

History

#1 - 02/04/2020 09:48 AM - Lynn Garren

In most cases, editing by hand works.

See this from Chris Green.

With the possible exception of automatic handling of the change to use the Python 3-style print function, I concur. Personally, I use six where appropriate to allow my Python code to work with Python 2.6 all the way through Python 3.7, which is what contributions to Spack must support.

#2 - 02/04/2020 11:31 AM - Ryan Lazur

I tried fixing it by hand but there are > 200 print statements. Also when I try to run with Python2.7 I get an error related to not being able to find the 'os' library. Also I do not get this issue when I am on the SBND gpvms running sbndcode. Am I doing something incorrectly when setting up new icaruscode?

#3 - 02/04/2020 12:22 PM - Lynn Garren

From Herb:

```
I'm working on updating larbatch. If you want to try updating your
checked out version, try running the following command.
```

```
$ cd $MRB_SOURCE/larbatch
$ find . -name \*.py -exec 2to3 -w {} \;
```

Note that there are many issues besides just print statements.

#4 - 02/05/2020 11:49 AM - Herbert Greenlee

Updates for python 3 have been merged to master branch. Now, project.py and other python utilities in larbatch are supposed to be compatible with either python 2 or python 3.

#5 - 02/11/2020 02:21 PM - Marc Mengel

Updated by Ryan Lazur 5 days ago

Thank you, Herb! That's great.

I pulled the newest branch and am no longer having issues with the code in project.py, but I am running into another (similar) issue:

File "/cvmfs/icarus.opensciencegrid.org/products/icarus/icarusutil/v08_41_00/python/experiment_utilities.py", line 51
raise RuntimeError, 'Missing or invalid metadata for file %s.' % filename

I can run your helpful updating script on the files in icarusutil, but this should probably be fixed upstream.

#6 - 02/11/2020 02:55 PM - Lynn Garren

- Assignee set to Herbert Greenlee

- Status changed from New to Resolved

Ryan, see [Herb's talk](#) at the LArSoft Coordination meeting this morning for more information.

I am resolving this issue.